

## ABSTRACT

A noninvasive method and system are provided for assessing the performance of implanted actuators of semi or fully-implantable hearing aid systems. A noninvasive method and system for adjusting an interface between implanted actuators of semi or fully-implantable hearing aid systems is also provided. The invention utilizes an externally positioned measurement device to obtain a test measure of the electrical signal passing through an implanted actuator when driven by a test signal of predetermined characteristics. The at least one test measure is used to determine among other things a status of the interface between the actuator and the component of the auditory system. Responsive to determining that the interface requires adjustment, an electrical signal is externally provided to a positioning system on the actuator to reposition the actuator relative to the component of the auditory system and correct the interface.